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A Division of General Dynamics Corporation
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DESIGN INFORMATION BULLETIN

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CONVAIR REPORT NO. ZM-22-005

PAGE 1 of 1

MODEL 22-0 AIRPLANES

DATE 22 March 1960 ENG'R. PRE-DESIGN

SPEED STABILITY MONITOR

This DIB shall establish the system description and the responsibilities for coordination, development, design and fabrication of the speed stability monitor.

1. SYSTEM DESCRIPTION:

An electronic device shall trigger a relay when the error signal exceeds a specified value or when amplifier power supply fails. The relay shall be wired thru the master warning circuit and terminating at a red light located on the upper coving of the flight engineers panel. Light nomenclature shall be "Speed Stability FAIL". Pre flight check of the system will be made by pulling the speed stability circuit breaker and/or depressing the pilots KIFIS test switch, which induces an error signal in excess of triggering level of relay, thereby lighting master warning and "Speed Stability FAIL" light. An in-flight check may be made via the emergency stabilizer trim hydraulic shutoff switch and the KIFIS test switch.

2. RESPONSIBILITIES:

- A. The Controls Design Group will coordinate overall task and release operational data describing the system.
- B. The Electrical Design Group will assist Controls in ESD coordination and will provide necessary wiring, lights and installation drawings to install monitor system in the aircraft.
- C. ESD will be responsible for the design development and packaging of the monitor, and will prepare detail specifications for same. Mounting provisions, plugs, etc., will be coordinated via Controls Design Group. ESD will fabricate a minimum of three certifiable engineering models, compatible to production design, by 4/8/60, and will fabricate production units in accordance with Material Control requirements.

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